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APPLICATION NO.		FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,765	07/09/2003		Xisheng Zhang	BTAT.001US1	2284
36257	7590	03/31/2004		EXAMINER	
PARSONS	HSUE &	& DE RUNTZ	ROSSOSHEK, YELENA		
655 MONTGOMERY STREET SUITE 1800				ART UNIT	PAPER NUMBER
SAN FRAN		CA 94111		2825	

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/616,765	ZHANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Helen B Rossoshek	2825					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tired within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 09 Ju	ıly 2003.						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
 4)⊠ Claim(s) 25-31,41-52 and 65-72 is/are pending in the application. 4a) Of the above claim(s) 41-52 and 69-72 is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) 25-31 and 65-68 is/are rejected. 							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers		•					
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>09 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the priority 	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage					
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>07092003</u>. 		Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 25-31 and 65-68, drawn to Method of simulating the operation of a circuit, classified in class 716, subclass 4.
- II. Claims 41-52 and 69-72, drawn to Method of simulating the dependence of non-linear device performance upon factor variations, classified in class 716, subclass 4.
- 2. Inventions Group II and I are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions Group I and Group II are represent two different methods which are not related, wherein Group I is a Method of simulating the operation of a circuit including sets of frequency points, interpolating the response of the circuit for this groups of frequency points and comparing the simulated response with the interpolated response for the groups of frequency points using a cubic spline interpolation mathematical representation, while Group II is a Method of simulating the dependence of non-linear device performance upon factor variations within supplying statistical distributions of a first set of simulation targets, calibrating a statistical distribution of a selected set of model with the first set of simulation targets and generating a statistical distributions using the typical model using a Monte Carlo technique.

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Each of two Groups inventions therefore does not require the others as one of ordinary skill in the art could use the various methods individually. One of ordinary skill in the art would find that each Group has different modes of operation are independent. See MPEP § 806.04.

Telephone Election

- 3. During a telephone conversation with Mr. Michael Cleveland (Registration No. 46,030) on March 25 20024 a provisional election was made without traverse to prosecute the invention of Group I (claims 25-31 and 65-68). Affirmation of this election must be made by applicant in replying to this Office action. Claims 41-50 and 69-72 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 25-31 and 65-68 are rejected under 35 U.S.C. 112, first paragraph, because the specification does not reasonably provide enablement for claims 25, 65

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and 67. The specification fails to support the scope of the limitation of claim 25, 65 and 67 wherein each frequency point of the first group lies between a pair of frequency points in the second group of frequency points, which contradicts to the specification on the page 22 which states that "taking one point of the second group between each pair of points in the first group".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen B Rossoshek whose telephone number is 571-272-1905. The examiner can normally be reached on 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

H. M. HOMPSONS

FRIMARY EXAMINER

TECHNOLOGY (ESTER 2800)

Business Center (EBC) at 866-217-9197 (toll-free).

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